

Application No 10/628207  
Application dated July 29,2003  
Reply to office action of January 25, 2010

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How to construct a balloon catheter wherein a part of shaft is replaced by spring ?

#### Arguments

It only means that part of shaft is missing and is replaced by a spring which is attached to the either end of shaft, so that part of shaft(spring) is such that it gets compressed while absorbing forward force and is able to transmit it forward without disturbing the alignment.

I will request you to note that in ordinary balloon the push at obstruction will push the guide wire and guide catheter assembly back and it will fall back.

Note page 2 para 2 of initial application (If there is obstruction in its path then further push will initially push the guiding catheter back and in next step the guidewire-balloon assembly will start curving down and finally the guidewire with balloon will fall back.

The stent occasionally comes off balloon and embolises some where in vascular bed.

(Acute/subacute obstruction.)

In my application change is that part of shaft is replaced by spring to absorb the forward force and transmit it forward.

Note page 2 para 5 of initial application (In the balloon proximal to balloon the shaft will be missing in a significant length and this part will have a spring).

Note page 3 last para & of initial application (Forward force; In the balloon proximal to balloon the shaft will be missing in a significant length and this part will have a spring(Figure 1A ), it will slowly get compressed in length with the force and transmit it forward. This segment will also have spirally running wires(Figure 1B) to act like a spring and absorb the force to transmit it forward.)

Note page 4 para 1,2 & 3 of initial application (Above segment will be in part of balloon where guide wire is inside the shaft and above modification so that the direction is not lost.

The balloon will be supplied in a fashion that the above segment is straight and the wire does not go through the gap of spring.

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Alternatively a wire supplied with a receptacle at the distal segment to allow attaching to the guidewire.)

Above information given in initial application explains the need for spring, purpose of spring and the position of spring which will help in its construction.

Please note that application also contains a stent and three well defined drugs.

The figures also explain same as above as explained in previous communication of September 2009.

I have more than 20 years of experience in this field as doctor and I can not afford a patent lawyer thus I have used this language to the best of my ability. I am based at distance so authorize you to make changes

***Conclusion***

Applicant respectfully requests that a timely Notice of Allowance be issued in this case.

Respectfully submitted

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(Dr. Vipul Narain Roy)

Dated 16<sup>th</sup> April 2010

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